

WHAT IS CLAIMED IS:

1. A sintered body for thermistor devices comprising:
at least one element selected from elements of group 3 in a
periodic table proviso that La is excluded; at least one element
5 selected from elements of group 2 in a periodic table; Mn; Al;
and oxygen, and being substantially free from any transition
metal other than Mn and the at least one element selected from
elements of group 3 in the periodic table.

10 2. The sintered body according to claim 1, which
satisfies the following formulae (1) and (2):

$$0.02 \leq a < 1 \quad (1)$$

$$b + c = 1 \quad (2)$$

provided that a content of the at least one element selected
15 from elements of group 3 in a periodic table proviso that La
is excluded is referred to 1-a mol; a content of the at least
one element selected from elements of group 2 in a periodic
table is referred to as a mol; a content of Mn is referred to
as b mol; and a content of Al is referred to as c mol.

20 3. The sintered body according to claim 2, wherein the
content b of Mn satisfies the following formula $0.10 \leq b \leq 0.30$.

25 4. The sintered body according to claim 1, wherein the
at least one element selected from elements of group 3 in a
periodic table proviso that La is excluded is Y, Sc, Ce, Nd,

Sm, Eu, Gd, Dy, Er or Yb and the at least one element selected from elements of group 2 in a periodic table is Ca, Sr, Mg or Ba.

5 5. The sintered body according to any of claim 1, which contains Si element.

10 6. A thermistor device comprising the sintered body according to claim 1 and a pair of electrode leads which is embedded in the sintered body and at least one end of which is drawn out to take an output signal.

 7. A temperature sensor using the thermistor device according to claim 6.

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